

The Roads to Supernormality: A Biological Perspective

Alejandro Álvarez



**SOCIETY
FOR
SCIENTIFIC
EXPLORATION**

1
00:00:08,310 --> 00:00:06,070

[Music]

2
00:00:10,390 --> 00:00:08,320

hello everyone my name is ramsellian and

3
00:00:11,990 --> 00:00:10,400

i'll be your co-host for decision

4
00:00:13,430 --> 00:00:12,000

um

5
00:00:15,350 --> 00:00:13,440

again please remember to maintain your

6
00:00:17,029 --> 00:00:15,360

microphones when video turns off

7
00:00:18,310 --> 00:00:17,039

for respect to our speaker

8
00:00:20,070 --> 00:00:18,320

the study

9
00:00:22,070 --> 00:00:20,080

that he will present is titled the roads

10
00:00:23,509 --> 00:00:22,080

to supernormality a biological

11
00:00:25,029 --> 00:00:23,519

perspective

12
00:00:26,870 --> 00:00:25,039

it will be presented by alejandro

13
00:00:29,429 --> 00:00:26,880

alvarez who is doing his phd in

14

00:00:30,790 --> 00:00:29,439

evolutionary biology he is also a fellow

15

00:00:32,549 --> 00:00:30,800

member of the parasitological unit of

16

00:00:34,150 --> 00:00:32,559

research dissemination and education and

17

00:00:36,150 --> 00:00:34,160

a founding member of the research center

18

00:00:38,150 --> 00:00:36,160

for synergy and consciousness

19

00:00:39,510 --> 00:00:38,160

so alex are you ready to share your

20

00:00:41,030 --> 00:00:39,520

screen

21

00:00:42,869 --> 00:00:41,040

i'm ready my friend

22

00:00:44,630 --> 00:00:42,879

awesome so without further ado i'll

23

00:00:47,510 --> 00:00:44,640

clear the stage for you

24

00:00:49,029 --> 00:00:47,520

good luck thank you very much

25

00:00:52,470 --> 00:00:49,039

okay

26

00:00:55,270 --> 00:00:54,150

as ramsay's

27

00:00:56,950 --> 00:00:55,280

said

28

00:00:59,430 --> 00:00:56,960

my talk is called

29

00:01:00,709 --> 00:00:59,440

the roadster supernormality a biological

30

00:01:04,789 --> 00:01:00,719

perspective

31

00:01:06,870 --> 00:01:04,799

it is a theoretical proposal

32

00:01:10,230 --> 00:01:06,880

for the

33

00:01:12,630 --> 00:01:10,240

development of psychic abilities for

34

00:01:14,310 --> 00:01:12,640

this most commonly known

35

00:01:15,510 --> 00:01:14,320

site which

36

00:01:17,910 --> 00:01:15,520

involves

37

00:01:20,070 --> 00:01:17,920

extra sensory perception that comprises

38

00:01:24,830 --> 00:01:20,080

telepathy

39

00:01:32,950 --> 00:01:26,469

psychokinesis

40

00:01:37,990 --> 00:01:35,670

we need to begin by defining the term

41

00:01:41,190 --> 00:01:38,000

supernormal

42

00:01:44,710 --> 00:01:41,200

just as a of historical background it is

43

00:01:48,789 --> 00:01:44,720

a term coined by frederick myers one of

44

00:01:50,550 --> 00:01:48,799

the factors of the british society for

45

00:01:53,350 --> 00:01:50,560

psychical research

46

00:01:55,749 --> 00:01:53,360

during the late 19th century and he

47

00:01:59,109 --> 00:01:55,759

definitely as a series of phenomena

48

00:02:02,230 --> 00:01:59,119

governed by natural laws that heralded a

49

00:02:05,190 --> 00:02:02,240

future station human evolution

50

00:02:06,870 --> 00:02:05,200

if we look at the etymological roots of

51
00:02:09,270 --> 00:02:06,880
this term

52
00:02:12,470 --> 00:02:09,280
we see that it means above normal or

53
00:02:13,430 --> 00:02:12,480
exceeding the normal or other

54
00:02:17,030 --> 00:02:13,440
this

55
00:02:18,229 --> 00:02:17,040
completely divides the turn from

56
00:02:20,949 --> 00:02:18,239
all of the

57
00:02:24,470 --> 00:02:20,959
paranormal paranormal or supernatural

58
00:02:27,110 --> 00:02:24,480
elements so if we see this

59
00:02:30,070 --> 00:02:27,120
making an analogy we can see this as a

60
00:02:31,910 --> 00:02:30,080
continuum for example in the case of

61
00:02:35,030 --> 00:02:31,920
musical ability

62
00:02:36,949 --> 00:02:35,040
we see a continuum of disability

63
00:02:37,750 --> 00:02:36,959

we have that

64

00:02:40,710 --> 00:02:37,760

many

65

00:02:42,390 --> 00:02:40,720

most of the population

66

00:02:45,830 --> 00:02:42,400

has only a

67

00:02:46,400 --> 00:02:45,840

basic level so this ability almost all

68

00:02:47,589 --> 00:02:46,410

of us

69

00:02:49,670 --> 00:02:47,599

[Music]

70

00:02:50,710 --> 00:02:49,680

can play an instrument

71

00:02:53,110 --> 00:02:50,720

both

72

00:02:55,509 --> 00:02:53,120

there will only be

73

00:02:57,110 --> 00:02:55,519

very few people that

74

00:02:59,990 --> 00:02:57,120

do this at an exceptional level for

75

00:03:01,030 --> 00:03:00,000

example a mozart uh

76
00:03:02,149 --> 00:03:01,040
tobin

77
00:03:04,390 --> 00:03:02,159
uh

78
00:03:05,589 --> 00:03:04,400
joking back

79
00:03:07,509 --> 00:03:05,599
this

80
00:03:12,790 --> 00:03:07,519
in

81
00:03:13,750 --> 00:03:12,800
considered super normal people

82
00:03:14,710 --> 00:03:13,760
and

83
00:03:16,470 --> 00:03:14,720
today

84
00:03:18,869 --> 00:03:16,480
such

85
00:03:20,390 --> 00:03:18,879
the same could apply to

86
00:03:21,750 --> 00:03:20,400
psychic abilities

87
00:03:24,390 --> 00:03:21,760
uh

88
00:03:27,350 --> 00:03:24,400

perhaps many people has a

89

00:03:28,309 --> 00:03:27,360

basal level of disabilities but there

90

00:03:30,390 --> 00:03:28,319

are only

91

00:03:33,910 --> 00:03:30,400

very few individuals that could be

92

00:03:36,309 --> 00:03:33,920

considered super psychics and today such

93

00:03:38,949 --> 00:03:36,319

phenomena regarded as anomalies or

94

00:03:40,869 --> 00:03:38,959

unbelievable but as we improve the

95

00:03:44,309 --> 00:03:40,879

understanding of ourselves our

96

00:03:47,110 --> 00:03:44,319

capacities and the physical world

97

00:03:50,630 --> 00:03:47,120

is very likely that the supernormal will

98

00:03:53,589 --> 00:03:51,509

so

99

00:03:55,670 --> 00:03:53,599

well during the last few cent

100

00:03:57,589 --> 00:03:55,680

during the last century

101
00:03:59,429 --> 00:03:57,599
there have been great advances to try to

102
00:04:01,270 --> 00:03:59,439
explain how

103
00:04:04,309 --> 00:04:01,280
could occur

104
00:04:07,350 --> 00:04:04,319
but there's still a great void regarding

105
00:04:08,309 --> 00:04:07,360
the possible biological explanations

106
00:04:09,990 --> 00:04:08,319
although

107
00:04:11,110 --> 00:04:10,000
more attention has been fed in recent

108
00:04:11,990 --> 00:04:11,120
years

109
00:04:15,270 --> 00:04:12,000
but

110
00:04:16,710 --> 00:04:15,280
something that often goes unnoticed

111
00:04:17,670 --> 00:04:16,720
is

112
00:04:20,629 --> 00:04:17,680
the

113
00:04:24,150 --> 00:04:20,639

whole set of situations prior to a

114

00:04:26,230 --> 00:04:24,160

person developing psychic abilities

115

00:04:28,390 --> 00:04:26,240

which in the

116

00:04:33,510 --> 00:04:28,400

superhero lore

117

00:04:37,590 --> 00:04:35,110

when we look at

118

00:04:41,990 --> 00:04:37,600

the superhero universe we see that every

119

00:04:43,590 --> 00:04:42,000

single hero has a specific origin story

120

00:04:44,629 --> 00:04:43,600

which is the

121

00:04:47,189 --> 00:04:44,639

the

122

00:04:49,350 --> 00:04:47,199

set of situations that

123

00:04:51,990 --> 00:04:49,360

result in that superhero development

124

00:04:54,150 --> 00:04:52,000

development superpowers

125

00:04:55,670 --> 00:04:54,160

and although each of these stories is

126
00:04:59,350 --> 00:04:55,680
unique

127
00:05:02,469 --> 00:04:59,360
we can see common elements if we analyze

128
00:05:03,909 --> 00:05:02,479
a set of them for example

129
00:05:11,990 --> 00:05:03,919
the

130
00:05:14,550 --> 00:05:12,000
but it is a

131
00:05:17,590 --> 00:05:14,560
quite general term it could refer to

132
00:05:19,350 --> 00:05:17,600
radiation from a nuclear accident from a

133
00:05:23,270 --> 00:05:19,360
radiative source

134
00:05:25,670 --> 00:05:23,280
from cosmic energy or from an unknown

135
00:05:27,390 --> 00:05:25,680
source of energy

136
00:05:28,629 --> 00:05:27,400
so uh

137
00:05:30,469 --> 00:05:28,639
[Music]

138
00:05:31,960 --> 00:05:30,479

when we look at the

139

00:05:33,110 --> 00:05:31,970

origin stories of

140

00:05:35,830 --> 00:05:33,120

[Music]

141

00:05:38,469 --> 00:05:35,840

real people that claim to have

142

00:05:41,749 --> 00:05:38,479

psychic abilities we also find some

143

00:05:45,029 --> 00:05:41,759

common elements that allow us to group

144

00:05:46,230 --> 00:05:45,039

these stories into different

145

00:05:48,150 --> 00:05:46,240

tables

146

00:05:49,590 --> 00:05:48,160

and

147

00:05:52,070 --> 00:05:49,600

here is what i

148

00:05:55,110 --> 00:05:52,080

this is what i call the roads to

149

00:05:56,870 --> 00:05:55,120

abnormality the

150

00:05:59,189 --> 00:05:56,880

the situations that

151
00:06:01,189 --> 00:05:59,199
lead to

152
00:06:02,629 --> 00:06:01,199
the development of psychic abilities in

153
00:06:05,029 --> 00:06:02,639
different people

154
00:06:07,270 --> 00:06:05,039
i have identified eight different

155
00:06:10,070 --> 00:06:07,280
situations

156
00:06:11,990 --> 00:06:10,080
that are uh

157
00:06:14,230 --> 00:06:12,000
well

158
00:06:16,309 --> 00:06:14,240
more common situations from which people

159
00:06:19,430 --> 00:06:16,319
consider they have obtained super normal

160
00:06:20,950 --> 00:06:19,440
abilities and i group them into four

161
00:06:23,270 --> 00:06:20,960
different categories

162
00:06:24,710 --> 00:06:23,280
and all together this suggests a common

163
00:06:27,510 --> 00:06:24,720

basis

164

00:06:30,390 --> 00:06:27,520

specifically biological trait involving

165

00:06:35,350 --> 00:06:30,400

the development of psychic function

166

00:06:40,710 --> 00:06:37,830

some people are said to be psychic born

167

00:06:43,350 --> 00:06:40,720

also sometimes

168

00:06:46,950 --> 00:06:43,360

the development of psychic abilities

169

00:06:48,390 --> 00:06:46,960

occurs at a later stage of their lives

170

00:06:51,749 --> 00:06:48,400

it is

171

00:06:52,950 --> 00:06:51,759

uh complicated to evaluate if

172

00:06:54,390 --> 00:06:52,960

a person

173

00:06:57,510 --> 00:06:54,400

uh

174

00:06:59,909 --> 00:06:57,520

was born with psychic abilities or if

175

00:07:02,629 --> 00:06:59,919

they are fired at a later stage because

176

00:07:05,189 --> 00:07:02,639

uh many times

177

00:07:07,110 --> 00:07:05,199

they manifest them

178

00:07:09,510 --> 00:07:07,120

at a later stage of their life

179

00:07:12,070 --> 00:07:09,520

but a genetic component could be argued

180

00:07:14,150 --> 00:07:12,080

if some of their blood relatives their

181

00:07:16,629 --> 00:07:14,160

parents or their grandparents also

182

00:07:19,990 --> 00:07:16,639

possess psychic abilities

183

00:07:21,830 --> 00:07:20,000

and this is the usual decrease

184

00:07:24,790 --> 00:07:21,840

we have evidence

185

00:07:27,430 --> 00:07:24,800

coming from different surveys

186

00:07:32,550 --> 00:07:27,440

from psy-oriented tasks

187

00:07:35,909 --> 00:07:32,560

and also from a genetic analysis this is

188

00:07:37,990 --> 00:07:35,919

a brand new kind of evidence that was

189

00:07:40,550 --> 00:07:38,000

published a couple of

190

00:07:45,670 --> 00:07:40,560

a few months ago

191

00:07:46,869 --> 00:07:45,680

in which a team led by helen bradley he

192

00:07:49,510 --> 00:07:46,879

found a

193

00:07:50,950 --> 00:07:49,520

specific gene variant that was present

194

00:07:53,350 --> 00:07:50,960

in

195

00:07:56,390 --> 00:07:53,360

people with psychic abilities and absent

196

00:07:58,230 --> 00:07:56,400

in those that are

197

00:08:00,469 --> 00:07:58,240

non-psychics

198

00:08:03,670 --> 00:08:02,710

the other the second category involves

199

00:08:06,469 --> 00:08:03,680

what i

200

00:08:09,189 --> 00:08:06,479

identify as stressful situations

201
00:08:12,390 --> 00:08:09,199
these are situations that

202
00:08:14,309 --> 00:08:12,400
involve the psychological and or

203
00:08:17,830 --> 00:08:14,319
physiological stress

204
00:08:21,589 --> 00:08:17,840
and here we find four different

205
00:08:26,390 --> 00:08:21,599
cylinders and errors

206
00:08:29,350 --> 00:08:26,400
ufo or uap encounters uap stands for

207
00:08:30,869 --> 00:08:29,360
unidentified aerial phenomena

208
00:08:32,070 --> 00:08:30,879
and

209
00:08:34,469 --> 00:08:32,080
here

210
00:08:38,310 --> 00:08:34,479
i would also add encounters with other

211
00:08:40,790 --> 00:08:38,320
kind of kinds of non-human entities

212
00:08:42,389 --> 00:08:40,800
which is a common theme in

213
00:08:44,470 --> 00:08:42,399

the folklore of

214

00:08:48,550 --> 00:08:44,480

many societies for example encounters

215

00:08:50,870 --> 00:08:48,560

with elves with fairies

216

00:08:51,910 --> 00:08:50,880

among other entities

217

00:08:55,030 --> 00:08:51,920

also

218

00:08:58,389 --> 00:08:55,040

near that experiences

219

00:08:59,350 --> 00:08:58,399

deep psychological dramas for example in

220

00:09:00,870 --> 00:08:59,360

some

221

00:09:02,949 --> 00:09:00,880

waterways cases

222

00:09:05,509 --> 00:09:02,959

which

223

00:09:07,509 --> 00:09:05,519

it is believed that the agent of

224

00:09:09,430 --> 00:09:07,519

causation is not a

225

00:09:11,030 --> 00:09:09,440

non-human entity

226
00:09:12,070 --> 00:09:11,040
but a

227
00:09:14,389 --> 00:09:12,080
person

228
00:09:15,590 --> 00:09:14,399
commonly a child or a teenager that is

229
00:09:19,990 --> 00:09:15,600
under the

230
00:09:25,509 --> 00:09:24,070
this is known as a recorded spontaneous

231
00:09:27,990 --> 00:09:25,519
psychokinesis

232
00:09:33,269 --> 00:09:28,000
or rsp

233
00:09:35,269 --> 00:09:33,279
and finally a a violin strike which is a

234
00:09:36,630 --> 00:09:35,279
very common theme in some shamanic

235
00:09:37,829 --> 00:09:36,640
societies

236
00:09:39,829 --> 00:09:37,839
in which

237
00:09:42,630 --> 00:09:39,839
sometimes the lightning strike is the

238
00:09:44,630 --> 00:09:42,640

final test for the person that is

239

00:09:46,630 --> 00:09:44,640

in the process of becoming a shaman

240

00:09:49,350 --> 00:09:46,640

if he survives the

241

00:09:52,070 --> 00:09:49,360

alignment strike well he's trying to be

242

00:09:55,670 --> 00:09:52,080

completed and in other cases it happens

243

00:09:57,350 --> 00:09:55,680

just by accident but after the person is

244

00:09:59,750 --> 00:09:57,360

struck by lightning

245

00:10:01,670 --> 00:09:59,760

he or she develops

246

00:10:03,829 --> 00:10:01,680

abilities that

247

00:10:05,269 --> 00:10:03,839

the elder people of the village consider

248

00:10:07,430 --> 00:10:05,279

to be

249

00:10:08,790 --> 00:10:07,440

necessary for

250

00:10:11,829 --> 00:10:08,800

a shaman so

251
00:10:14,389 --> 00:10:11,839
this person can in that moment begin

252
00:10:17,110 --> 00:10:14,399
his training

253
00:10:20,389 --> 00:10:17,120
for becoming a champion

254
00:10:21,430 --> 00:10:20,399
in the next category i

255
00:10:22,470 --> 00:10:21,440
involve

256
00:10:26,870 --> 00:10:22,480
i

257
00:10:29,110 --> 00:10:26,880
and here we have

258
00:10:30,470 --> 00:10:29,120
people who have never had any type of

259
00:10:33,110 --> 00:10:30,480
psychic ability

260
00:10:35,509 --> 00:10:33,120
and we through training managed to

261
00:10:36,710 --> 00:10:35,519
succeed at different site tasks

262
00:10:39,910 --> 00:10:36,720
for example

263
00:10:42,550 --> 00:10:39,920

in the case of the stargate project

264

00:10:44,470 --> 00:10:42,560

the there were

265

00:10:46,790 --> 00:10:44,480

several volunteers that

266

00:10:49,269 --> 00:10:46,800

were initially classified as normal

267

00:10:50,389 --> 00:10:49,279

non-site individuals they said that they

268

00:10:52,310 --> 00:10:50,399

have never

269

00:10:54,230 --> 00:10:52,320

participated in

270

00:10:55,190 --> 00:10:54,240

any kind of esp

271

00:10:55,910 --> 00:10:55,200

tasks

272

00:10:57,430 --> 00:10:55,920

but

273

00:10:59,829 --> 00:10:57,440

after

274

00:11:02,230 --> 00:10:59,839

some time of training they become

275

00:11:04,310 --> 00:11:02,240

very good remote viewers

276

00:11:06,069 --> 00:11:04,320

some of them were among the most

277

00:11:07,269 --> 00:11:06,079

successful and more viewers of this

278

00:11:10,230 --> 00:11:07,279

project

279

00:11:13,990 --> 00:11:10,240

and we also have a meditators who

280

00:11:16,389 --> 00:11:14,000

spontaneously experience side phenomena

281

00:11:19,430 --> 00:11:16,399

not necessarily experienced meditators

282

00:11:20,790 --> 00:11:19,440

but many people that are

283

00:11:23,829 --> 00:11:20,800

beginning their

284

00:11:26,829 --> 00:11:25,670

and

285

00:11:27,829 --> 00:11:26,839

their

286

00:11:31,110 --> 00:11:27,839

common uh

287

00:11:32,630 --> 00:11:31,120

theme between this category and the last

288

00:11:35,110 --> 00:11:32,640

one the stressful

289

00:11:37,269 --> 00:11:35,120

situations category is that these

290

00:11:39,110 --> 00:11:37,279

situations somehow

291

00:11:40,870 --> 00:11:39,120

impact the physiology of

292

00:11:43,509 --> 00:11:40,880

the person

293

00:11:46,310 --> 00:11:43,519

for example in the case of

294

00:11:48,949 --> 00:11:46,320

near-death experiences uh

295

00:11:50,949 --> 00:11:48,959

aligning strike obviously and some ufo

296

00:11:53,190 --> 00:11:50,959

encounters that involves

297

00:11:55,269 --> 00:11:53,200

some sort of radiation

298

00:11:57,590 --> 00:11:55,279

there is a

299

00:12:00,870 --> 00:11:57,600

physiological uh a change in the

300

00:12:03,470 --> 00:12:00,880

physiology of these people and also in

301
00:12:05,110 --> 00:12:03,480
the case of meditation it's known that

302
00:12:08,629 --> 00:12:05,120
[Music]

303
00:12:12,310 --> 00:12:08,639
this could have a beneficial impact in

304
00:12:13,829 --> 00:12:12,320
our physiology for example it can

305
00:12:16,870 --> 00:12:13,839
aging or

306
00:12:18,230 --> 00:12:16,880
it can suppress the

307
00:12:21,829 --> 00:12:18,240
secretion of

308
00:12:23,269 --> 00:12:21,839
several stress related molecules or

309
00:12:25,269 --> 00:12:23,279
also

310
00:12:28,069 --> 00:12:25,279
have an impact in

311
00:12:31,190 --> 00:12:28,079
the gene expression patterns of

312
00:12:36,710 --> 00:12:34,150
and finally

313
00:12:40,629 --> 00:12:36,720

our last category is what i call

314

00:12:43,190 --> 00:12:41,829

here

315

00:12:46,870 --> 00:12:43,200

people develop

316

00:12:48,550 --> 00:12:46,880

super normal abilities by taking

317

00:12:51,430 --> 00:12:48,560

different substances

318

00:12:53,910 --> 00:12:51,440

mainly psychedelic substances such as

319

00:12:57,829 --> 00:12:53,920

the bmt lsd

320

00:13:01,590 --> 00:12:59,350

david luke is

321

00:13:03,829 --> 00:13:01,600

one that has published

322

00:13:06,470 --> 00:13:03,839

many papers

323

00:13:08,550 --> 00:13:06,480

she

324

00:13:10,550 --> 00:13:08,560

makes uh

325

00:13:13,590 --> 00:13:10,560

he investigates the relationship between

326

00:13:16,790 --> 00:13:13,600

side and drops and

327

00:13:18,550 --> 00:13:16,800

there is false additional evidence even

328

00:13:23,030 --> 00:13:18,560

the

329

00:13:25,670 --> 00:13:23,040

health

330

00:13:27,190 --> 00:13:25,680

there have been many studies that

331

00:13:29,190 --> 00:13:27,200

investigate the

332

00:13:30,710 --> 00:13:29,200

relationship

333

00:13:33,509 --> 00:13:30,720

between

334

00:13:36,310 --> 00:13:33,519

drugs and the effects that they can have

335

00:13:38,790 --> 00:13:36,320

specifically on the brain and some

336

00:13:40,550 --> 00:13:38,800

studies have found that

337

00:13:42,310 --> 00:13:40,560

several drugs

338

00:13:43,829 --> 00:13:42,320

can modify

339

00:13:46,550 --> 00:13:43,839
or have an impact in the neural

340

00:13:47,670 --> 00:13:46,560
plasticity of the brain

341

00:13:49,910 --> 00:13:47,680
this is

342

00:13:51,829 --> 00:13:49,920
can modify

343

00:13:53,829 --> 00:13:51,839
the neuronal connections that are

344

00:13:55,189 --> 00:13:53,839
present at a specific region of the

345

00:13:56,150 --> 00:13:55,199
brain

346

00:14:00,069 --> 00:13:56,160
so

347

00:14:05,509 --> 00:14:02,069
eight different situations they grouped

348

00:14:07,750 --> 00:14:05,519
into four different categories

349

00:14:09,110 --> 00:14:07,760
that share the same outcome and this

350

00:14:11,910 --> 00:14:09,120
outcome is

351
00:14:15,509 --> 00:14:11,920
the development of the same super normal

352
00:14:17,430 --> 00:14:15,519
abilities esp and dk

353
00:14:20,150 --> 00:14:17,440
so

354
00:14:23,990 --> 00:14:20,160
given the

355
00:14:27,430 --> 00:14:26,069
situations

356
00:14:31,110 --> 00:14:27,440
somehow

357
00:14:31,829 --> 00:14:31,120
modify the physiology of the person

358
00:14:35,829 --> 00:14:31,839
they

359
00:14:37,189 --> 00:14:35,839
most impact on a biological trait

360
00:14:38,310 --> 00:14:37,199
but in the

361
00:14:40,949 --> 00:14:38,320
case of

362
00:14:43,189 --> 00:14:40,959
people that are psychopath without

363
00:14:44,870 --> 00:14:43,199

what they call side genes

364

00:14:46,470 --> 00:14:44,880

it is somehow

365

00:14:49,590 --> 00:14:46,480

easy to understand

366

00:14:51,670 --> 00:14:49,600

the gene is normally expressed and

367

00:14:54,389 --> 00:14:51,680

this expression results in

368

00:14:56,310 --> 00:14:54,399

the development of supernormal abilities

369

00:15:01,640 --> 00:14:56,320

but what happens with people that are

370

00:15:05,990 --> 00:15:03,110

[Music]

371

00:15:08,790 --> 00:15:06,000

suggests is that

372

00:15:10,230 --> 00:15:08,800

such the structure is very likely to be

373

00:15:12,389 --> 00:15:10,240

the same thing

374

00:15:14,629 --> 00:15:12,399

also in these people and

375

00:15:17,990 --> 00:15:14,639

there is an evolution

376

00:15:20,389 --> 00:15:18,000

and revolutionary reason for this

377

00:15:22,870 --> 00:15:20,399

when there is a trait that

378

00:15:24,870 --> 00:15:22,880

has a specific function and

379

00:15:27,750 --> 00:15:24,880

it

380

00:15:29,670 --> 00:15:27,760

performs this function

381

00:15:32,550 --> 00:15:29,680

in an optimal way

382

00:15:35,269 --> 00:15:32,560

it is quite unlikely that a

383

00:15:36,949 --> 00:15:35,279

new trait would appear that performs the

384

00:15:39,110 --> 00:15:36,959

same function

385

00:15:42,150 --> 00:15:39,120

this

386

00:15:44,069 --> 00:15:42,160

would represent a very high evolutionary

387

00:15:47,670 --> 00:15:44,079

code

388

00:15:50,949 --> 00:15:47,680

so the different evolutionary forces

389

00:15:52,150 --> 00:15:50,959

usually work with what they have

390

00:15:56,230 --> 00:15:52,160

so if

391

00:15:58,870 --> 00:15:56,240

there is a structure that

392

00:16:01,189 --> 00:15:58,880

is responsible responsible for

393

00:16:03,590 --> 00:16:01,199

supernormal abilities

394

00:16:05,749 --> 00:16:03,600

it's more likely that this structure

395

00:16:07,430 --> 00:16:05,759

would be the same if

396

00:16:09,189 --> 00:16:07,440

every person

397

00:16:11,990 --> 00:16:09,199

these abilities

398

00:16:15,670 --> 00:16:12,000

no matter if they have the

399

00:16:17,509 --> 00:16:15,680

right genes or if they

400

00:16:20,069 --> 00:16:17,519

reach this point through

401
00:16:21,990 --> 00:16:20,079
different situations like the ones i

402
00:16:23,749 --> 00:16:22,000
mentioned here

403
00:16:25,590 --> 00:16:23,759
and also

404
00:16:26,629 --> 00:16:25,600
they suggest that

405
00:16:28,870 --> 00:16:26,639
more

406
00:16:31,590 --> 00:16:28,880
instead of having the right genes

407
00:16:33,189 --> 00:16:31,600
these of the other people

408
00:16:49,110 --> 00:16:33,199
the

409
00:16:54,470 --> 00:16:52,230
possible mechanisms

410
00:16:55,749 --> 00:16:54,480
which are

411
00:16:57,030 --> 00:16:55,759
are likely to

412
00:16:59,430 --> 00:16:57,040
be involved

413
00:17:01,590 --> 00:16:59,440

the first one is a genetic robustness

414

00:17:04,309 --> 00:17:01,600

which is the persistence of an

415

00:17:07,189 --> 00:17:04,319

organismal trait under perturbations and

416

00:17:09,750 --> 00:17:07,199

it ensures the stability of phenotypic

417

00:17:14,150 --> 00:17:09,760

traits that are constantly exposed

418

00:17:17,029 --> 00:17:14,160

to genetic and non-genetic variation

419

00:17:20,150 --> 00:17:17,039

and there is a similar mechanism which

420

00:17:22,150 --> 00:17:20,160

is called genetic compensation in which

421

00:17:23,189 --> 00:17:22,160

an organismal with a deleterious

422

00:17:25,189 --> 00:17:23,199

mutation

423

00:17:28,150 --> 00:17:25,199

it does not develop the expected adverse

424

00:17:31,190 --> 00:17:28,160

phenotype due to the compensatory

425

00:17:34,470 --> 00:17:31,200

actions of another gene or genes

426

00:17:36,630 --> 00:17:34,480

and this can uh restore the normal

427

00:17:37,510 --> 00:17:36,640

physiological function

428

00:17:39,669 --> 00:17:37,520

so

429

00:17:42,070 --> 00:17:39,679

the difference between these two

430

00:17:43,430 --> 00:17:42,080

mechanisms are

431

00:17:46,070 --> 00:17:43,440

this

432

00:17:48,070 --> 00:17:46,080

the case of genetic robustness

433

00:17:51,029 --> 00:17:48,080

it is due to

434

00:17:56,390 --> 00:17:51,039

redundant or evolutionarily related

435

00:18:00,230 --> 00:17:57,590

and

436

00:18:03,190 --> 00:18:00,240

also it could be due to a tightly

437

00:18:04,800 --> 00:18:03,200

regulated cellular network

438

00:18:07,029 --> 00:18:04,810

because in many cases

439

00:18:10,549 --> 00:18:07,039

[Music]

440

00:18:12,630 --> 00:18:10,559

some genes can be part of a

441

00:18:15,590 --> 00:18:12,640

large metabolic signaling for

442

00:18:18,390 --> 00:18:15,600

transcriptional network and if one of

443

00:18:20,070 --> 00:18:18,400

the genes of this network is

444

00:18:21,990 --> 00:18:20,080

has a mutation

445

00:18:24,230 --> 00:18:22,000

and is inhibited

446

00:18:26,390 --> 00:18:24,240

the other genes from the network can

447

00:18:31,909 --> 00:18:26,400

rescue this function

448

00:18:36,230 --> 00:18:33,990

there are two possible

449

00:18:38,630 --> 00:18:36,240

models

450

00:18:40,470 --> 00:18:38,640

that would account for this process

451
00:18:43,909 --> 00:18:40,480
one of them involves

452
00:18:45,510 --> 00:18:43,919
dna damage response in which

453
00:18:47,990 --> 00:18:45,520
there are

454
00:18:50,390 --> 00:18:48,000
changes in the chromatin organization

455
00:18:50,400 --> 00:18:53,990
uncovers

456
00:18:58,390 --> 00:18:55,190
several

457
00:19:01,669 --> 00:18:58,400
a region that would not be

458
00:19:04,549 --> 00:19:01,679
accessible in other situations and in

459
00:19:06,150 --> 00:19:04,559
this region there could be a gene that

460
00:19:08,710 --> 00:19:06,160
compensates

461
00:19:10,150 --> 00:19:08,720
the mutation of the other gene

462
00:19:12,710 --> 00:19:10,160
and also

463
00:19:14,070 --> 00:19:12,720

there can be

464

00:19:16,070 --> 00:19:14,080

several

465

00:19:18,070 --> 00:19:16,080

pathways that involve different kind of

466

00:19:21,830 --> 00:19:18,080

rna molecules

467

00:19:21,840 --> 00:19:26,950

could be involved in restoring

468

00:19:32,789 --> 00:19:28,310

so

469

00:19:35,669 --> 00:19:32,799

just to try to make clear this

470

00:19:39,830 --> 00:19:38,630

here we have different organisms with

471

00:19:43,430 --> 00:19:39,840

different

472

00:19:44,390 --> 00:19:43,440

for example if we look at this in the

473

00:19:46,230 --> 00:19:44,400

case of

474

00:19:47,750 --> 00:19:46,240

zebrafish

475

00:19:49,830 --> 00:19:47,760

we have

476

00:19:53,669 --> 00:19:49,840

a mutation in this gene

477

00:19:57,110 --> 00:19:53,679

but the newton phenotype has minor or

478

00:19:58,150 --> 00:19:57,120

nonvascular effects this is because

479

00:19:59,830 --> 00:19:58,160

there is

480

00:20:01,270 --> 00:19:59,840

another

481

00:20:05,750 --> 00:20:01,280

gene which is

482

00:20:11,669 --> 00:20:09,430

that compensates compensates the loss of

483

00:20:12,470 --> 00:20:11,679

function of this joint

484

00:20:14,630 --> 00:20:12,480

so

485

00:20:16,870 --> 00:20:14,640

when there is a mutant

486

00:20:18,070 --> 00:20:16,880

it is likely that

487

00:20:19,830 --> 00:20:18,080

it

488

00:20:21,990 --> 00:20:19,840

did not develop

489

00:20:25,909 --> 00:20:22,000

various effects

490

00:20:27,750 --> 00:20:25,919

but what happens when this is

491

00:20:30,870 --> 00:20:27,760

the gene is not mutated but only

492

00:20:33,430 --> 00:20:30,880

attenuated at expression levels

493

00:20:34,470 --> 00:20:33,440

we see that there are severe vascular

494

00:20:36,390 --> 00:20:34,480

defects

495

00:20:39,750 --> 00:20:36,400

and this is because

496

00:20:41,110 --> 00:20:39,760

this other gene has not been

497

00:20:42,630 --> 00:20:41,120

expressed

498

00:20:45,990 --> 00:20:42,640

because

499

00:20:49,830 --> 00:20:47,029

so

500

00:20:53,190 --> 00:20:49,840

i think this might be

501
00:20:56,470 --> 00:20:53,200
somehow confusing but i try to explain

502
00:21:02,470 --> 00:20:59,029
what we have here are two different

503
00:21:03,190 --> 00:21:02,480
scenarios leading to super normality

504
00:21:04,789 --> 00:21:03,200
the

505
00:21:08,950 --> 00:21:04,799
easy one is

506
00:21:12,070 --> 00:21:09,830
in

507
00:21:14,230 --> 00:21:12,080
those people

508
00:21:16,789 --> 00:21:14,240
the gene their

509
00:21:19,750 --> 00:21:16,799
necessary genes are normally expressed

510
00:21:22,310 --> 00:21:19,760
in a specific brain region

511
00:21:27,270 --> 00:21:25,510
there is an innate development of site

512
00:21:31,430 --> 00:21:27,280
and this is

513
00:21:32,390 --> 00:21:31,440

this would operate like any other

514

00:21:33,990 --> 00:21:32,400

trade

515

00:21:35,909 --> 00:21:34,000

in the organs

516

00:21:37,830 --> 00:21:35,919

but what happens in

517

00:21:40,549 --> 00:21:37,840

non-psychic people

518

00:21:42,549 --> 00:21:40,559

not like born people

519

00:21:44,549 --> 00:21:42,559

there are situations whose effects are

520

00:21:46,149 --> 00:21:44,559

known to produce deep physiological

521

00:21:48,950 --> 00:21:46,159

modifications

522

00:21:52,710 --> 00:21:48,960

ones that i showed you that rooted into

523

00:21:55,350 --> 00:21:52,720

stressful directed or induced

524

00:21:56,630 --> 00:21:55,360

and there's also a duration of gene

525

00:21:59,830 --> 00:21:56,640

regulation

526
00:22:00,870 --> 00:21:59,840
and or expression patterns

527
00:22:03,110 --> 00:22:00,880
which

528
00:22:05,190 --> 00:22:03,120
could be due to

529
00:22:09,190 --> 00:22:05,200
genetic robustness or genetic

530
00:22:12,390 --> 00:22:09,200
compensation for example uh

531
00:22:13,190 --> 00:22:12,400
suppose that

532
00:22:18,470 --> 00:22:13,200
the

533
00:22:19,830 --> 00:22:18,480
genes involved in psychic development

534
00:22:22,710 --> 00:22:19,840
uh

535
00:22:25,190 --> 00:22:22,720
expressed in a specific brain writing

536
00:22:26,789 --> 00:22:25,200
the psychic bomb people

537
00:22:27,830 --> 00:22:26,799
will have this

538
00:22:32,950 --> 00:22:27,840

normally

539

00:22:39,990 --> 00:22:35,190

would not have these genes so there must

540

00:22:43,190 --> 00:22:40,000

be another way always that

541

00:22:46,390 --> 00:22:43,200

have the same effect here

542

00:22:48,710 --> 00:22:46,400

that most that are reflected in

543

00:22:51,830 --> 00:22:48,720

the same brain region that permeates

544

00:22:58,870 --> 00:22:54,710

i think this is going to be

545

00:23:01,510 --> 00:22:58,880

clear in the next slides

546

00:23:03,510 --> 00:23:01,520

but what is

547

00:23:04,549 --> 00:23:03,520

the more interesting part of this is

548

00:23:06,630 --> 00:23:04,559

that

549

00:23:08,470 --> 00:23:06,640

the brain region responsible for

550

00:23:12,789 --> 00:23:08,480

scientific functioning must be the same

551
00:23:14,549 --> 00:23:12,799
in psychic porn and nominate psychics

552
00:23:17,190 --> 00:23:14,559
because of the

553
00:23:18,950 --> 00:23:17,200
evolutionary reasons that

554
00:23:22,470 --> 00:23:18,960
i told you before

555
00:23:23,990 --> 00:23:22,480
it would be

556
00:23:25,510 --> 00:23:24,000
very expensive to

557
00:23:27,830 --> 00:23:25,520
that

558
00:23:29,750 --> 00:23:27,840
each of these situations activates a

559
00:23:32,390 --> 00:23:29,760
different gradient different brain

560
00:23:33,750 --> 00:23:32,400
region that is responsible for the same

561
00:23:36,310 --> 00:23:33,760
function

562
00:23:37,830 --> 00:23:36,320
so what is more likely is that there is

563
00:23:40,789 --> 00:23:37,840

only one

564

00:23:45,830 --> 00:23:43,669

responsible for

565

00:23:48,830 --> 00:23:45,840

scientific development and that this

566

00:23:52,470 --> 00:23:48,840

region is the same in

567

00:23:54,630 --> 00:23:52,480

both psychic born people and

568

00:23:55,830 --> 00:23:54,640

non-psychic porn

569

00:23:58,870 --> 00:23:55,840

so

570

00:24:01,190 --> 00:23:58,880

this is just a proposal but

571

00:24:02,830 --> 00:24:01,200

fortunately we have

572

00:24:05,350 --> 00:24:02,840

some

573

00:24:08,230 --> 00:24:05,360

uh evidence

574

00:24:11,190 --> 00:24:08,240

that it was

575

00:24:12,630 --> 00:24:11,200

revealed a few years ago by

576
00:24:15,430 --> 00:24:12,640
this

577
00:24:17,029 --> 00:24:15,440
journalist and jacobson who published

578
00:24:21,110 --> 00:24:17,039
this book

579
00:24:23,430 --> 00:24:21,120
about the history of the stargate

580
00:24:24,950 --> 00:24:23,440
and she managed to interview different

581
00:24:27,750 --> 00:24:24,960
people that were involved in this

582
00:24:30,789 --> 00:24:27,760
project both that were also

583
00:24:35,750 --> 00:24:30,799
active today and one of

584
00:24:36,549 --> 00:24:35,760
these scientist is dr christopher green

585
00:24:39,269 --> 00:24:36,559
who

586
00:24:41,190 --> 00:24:39,279
is currently working with patients that

587
00:24:44,950 --> 00:24:41,200
have been exposed to

588
00:24:46,710 --> 00:24:44,960

ufo contours or uav encounters

589

00:24:48,630 --> 00:24:46,720

but that had uh

590

00:24:50,870 --> 00:24:48,640

[Music]

591

00:24:52,070 --> 00:24:50,880

have been affected physiologically

592

00:24:54,070 --> 00:24:52,080

speaking

593

00:24:56,310 --> 00:24:54,080

because of these encounters

594

00:24:59,110 --> 00:24:56,320

so he began to perform different

595

00:25:00,789 --> 00:24:59,120

genetical tests including functional

596

00:25:01,909 --> 00:25:00,799

magnetic resonance

597

00:25:08,149 --> 00:25:01,919

in

598

00:25:09,669 --> 00:25:08,159

these

599

00:25:11,190 --> 00:25:09,679

patients that

600

00:25:16,230 --> 00:25:11,200

was absent

601
00:25:22,070 --> 00:25:19,750
series a higher fiber density

602
00:25:23,750 --> 00:25:22,080
between the head of the caudate nucleus

603
00:25:26,710 --> 00:25:23,760
and the putamen

604
00:25:29,510 --> 00:25:26,720
it looks something like this

605
00:25:32,710 --> 00:25:29,520
and this is not present in normal this

606
00:25:35,990 --> 00:25:32,720
is the normal phenotype this is the

607
00:25:40,870 --> 00:25:39,590
the experimental phenotype but

608
00:25:44,390 --> 00:25:40,880
among

609
00:25:47,590 --> 00:25:45,669
there are

610
00:25:50,630 --> 00:25:47,600
people that also

611
00:25:53,750 --> 00:25:50,640
took part in the stargate project

612
00:25:59,110 --> 00:25:53,760
that have not had a ufo encounters but

613
00:25:59,120 --> 00:26:02,789

they perhaps they

614

00:26:05,269 --> 00:26:04,149

only went through

615

00:26:08,470 --> 00:26:05,279

different

616

00:26:11,590 --> 00:26:08,480

training sessions to

617

00:26:14,630 --> 00:26:11,600

succeed that ability or

618

00:26:17,750 --> 00:26:14,640

it could also be that they have some

619

00:26:18,549 --> 00:26:17,760

family members or other family members

620

00:26:21,430 --> 00:26:18,559

that

621

00:26:22,830 --> 00:26:21,440

also have this ability and among these

622

00:26:26,870 --> 00:26:22,840

subjects

623

00:26:29,669 --> 00:26:26,880

was joseph mcMahon who is perhaps one of

624

00:26:31,510 --> 00:26:29,679

the best remote viewers in the world

625

00:26:34,310 --> 00:26:31,520

and the

626
00:26:37,830 --> 00:26:34,320
interesting part about him is that

627
00:26:39,990 --> 00:26:37,840
he had a near-death experience before

628
00:26:41,430 --> 00:26:40,000
joining this program

629
00:26:44,549 --> 00:26:41,440
uh very deep

630
00:26:45,990 --> 00:26:44,559
near that experience i would say

631
00:26:49,190 --> 00:26:46,000
including a

632
00:26:52,470 --> 00:26:49,909
so

633
00:26:54,630 --> 00:26:52,480
what we are seeing here is a group of

634
00:26:58,149 --> 00:26:54,640
people

635
00:27:00,470 --> 00:26:59,669
could be improved into

636
00:27:03,669 --> 00:27:00,480
the

637
00:27:06,549 --> 00:27:03,679
scenarios that i am suggesting

638
00:27:07,909 --> 00:27:06,559

we have at least

639

00:27:12,789 --> 00:27:07,919

three

640

00:27:15,669 --> 00:27:12,799

encounters

641

00:27:18,310 --> 00:27:15,679

remove that experience and uh

642

00:27:19,990 --> 00:27:18,320

will the development develop you know

643

00:27:24,950 --> 00:27:20,000

psychic abilities through either

644

00:27:30,470 --> 00:27:28,070

inheritance of visibility

645

00:27:32,710 --> 00:27:30,480

but we see that they have an impact on

646

00:27:35,590 --> 00:27:32,720

the same region of the brain

647

00:27:38,630 --> 00:27:35,600

so this

648

00:27:41,430 --> 00:27:38,640

is adjust to what i proposed

649

00:27:44,230 --> 00:27:41,440

in the previous slides

650

00:27:46,470 --> 00:27:44,240

so uh

651
00:27:48,710 --> 00:27:46,480
white the caldecotts

652
00:27:51,669 --> 00:27:48,720
[Music]

653
00:27:53,590 --> 00:27:51,679
although the same anomaly is found among

654
00:27:55,269 --> 00:27:53,600
all these people and absent in the

655
00:27:57,830 --> 00:27:55,279
control group

656
00:27:59,590 --> 00:27:57,840
is there any reason for this brain

657
00:28:01,350 --> 00:27:59,600
structure that

658
00:28:03,590 --> 00:28:01,360
would suggest that it has a role in

659
00:28:07,190 --> 00:28:03,600
anomalous condition but if we look at

660
00:28:09,990 --> 00:28:07,200
the normal functions of this structure

661
00:28:11,909 --> 00:28:10,000
we see that it is involved in motor and

662
00:28:14,870 --> 00:28:11,919
cognitive functions like

663
00:28:17,029 --> 00:28:14,880

processing language dreaming

664

00:28:17,909 --> 00:28:17,039

emotions among others

665

00:28:20,870 --> 00:28:17,919

but

666

00:28:23,430 --> 00:28:20,880

in the last few decades

667

00:28:25,510 --> 00:28:23,440

other functions have been found that are

668

00:28:29,029 --> 00:28:25,520

related to this structure

669

00:28:31,110 --> 00:28:29,039

and that are thought to be

670

00:28:32,230 --> 00:28:31,120

related with anomalous cognition

671

00:28:35,190 --> 00:28:32,240

processes

672

00:28:39,750 --> 00:28:35,200

for example decision making intuition

673

00:28:42,630 --> 00:28:39,760

and superior cognitive function which

674

00:28:43,590 --> 00:28:42,640

in different studies are found in people

675

00:28:46,630 --> 00:28:43,600

having

676
00:28:48,710 --> 00:28:46,640
super normal abilities

677
00:28:49,669 --> 00:28:48,720
but this is

678
00:28:52,789 --> 00:28:49,679
not

679
00:28:55,029 --> 00:28:52,799
a new idea in fact the

680
00:28:57,350 --> 00:28:55,039
the first one who suggested that the

681
00:28:59,990 --> 00:28:57,360
cowboys could be involved in psychic

682
00:29:01,590 --> 00:29:00,000
functions where soviet researchers

683
00:29:05,510 --> 00:29:01,600
during the

684
00:29:07,430 --> 00:29:05,520
late 70s and the 80s

685
00:29:10,310 --> 00:29:07,440
but

686
00:29:12,549 --> 00:29:10,320
it was picked up by

687
00:29:13,830 --> 00:29:12,559
dr christopher green and also by

688
00:29:16,630 --> 00:29:13,840

geneticist

689

00:29:20,630 --> 00:29:16,640

gary nolan from stanford university

690

00:29:24,310 --> 00:29:20,640

and in his current sample they have as i

691

00:29:25,669 --> 00:29:24,320

said people that with new f4 or uap

692

00:29:28,310 --> 00:29:25,679

encounters

693

00:29:29,350 --> 00:29:28,320

people with anomalies cognition

694

00:29:32,389 --> 00:29:29,360

and

695

00:29:34,389 --> 00:29:32,399

in the case of joseph mcmungo

696

00:29:35,830 --> 00:29:34,399

near that experience

697

00:29:38,549 --> 00:29:35,840

the question is

698

00:29:40,950 --> 00:29:38,559

could any of the other situations lead

699

00:29:42,630 --> 00:29:40,960

to the same outcome not just the

700

00:29:45,430 --> 00:29:42,640

development you know

701

00:29:48,149 --> 00:29:45,440

super normal abilities but

702

00:29:50,389 --> 00:29:48,159

the development of this specific brain

703

00:29:51,990 --> 00:29:50,399

anomaly between the caudate movements

704

00:29:53,269 --> 00:29:52,000

and the future

705

00:29:55,430 --> 00:29:53,279

well

706

00:29:57,990 --> 00:29:55,440

for several drugs and

707

00:30:01,269 --> 00:29:58,000

psychological stressors it is known that

708

00:30:04,389 --> 00:30:01,279

they can use brain hypertermia which is

709

00:30:06,950 --> 00:30:04,399

a local increase of brain temperature

710

00:30:08,630 --> 00:30:06,960

and also an increase in extracellular

711

00:30:10,470 --> 00:30:08,640

dopamine

712

00:30:13,430 --> 00:30:10,480

the question is

713

00:30:14,789 --> 00:30:13,440

could this have an effect on neuronal

714

00:30:15,830 --> 00:30:14,799

connectivity

715

00:30:17,190 --> 00:30:15,840

it is

716

00:30:18,549 --> 00:30:17,200

likely that

717

00:30:20,549 --> 00:30:18,559

they have they

718

00:30:24,310 --> 00:30:20,559

could have

719

00:30:26,310 --> 00:30:24,320

and also uh it is known that this

720

00:30:28,230 --> 00:30:26,320

the region of the basal ganglia in which

721

00:30:31,990 --> 00:30:28,240

the calgary increases

722

00:30:33,909 --> 00:30:32,000

is a region with a great plasticity

723

00:30:35,269 --> 00:30:33,919

which means that

724

00:30:37,269 --> 00:30:35,279

it's

725

00:30:39,190 --> 00:30:37,279

quite easy to form

726
00:30:40,470 --> 00:30:39,200
new narrow automations

727
00:30:43,510 --> 00:30:40,480
so

728
00:30:44,630 --> 00:30:43,520
this remains to be seen here

729
00:30:46,470 --> 00:30:44,640
and

730
00:30:49,029 --> 00:30:46,480
if

731
00:30:52,789 --> 00:30:49,039
any point of

732
00:30:53,830 --> 00:30:52,799
the study they include people which

733
00:30:55,990 --> 00:30:53,840
uh

734
00:30:59,509 --> 00:30:56,000
temple reports their aquarium psychic

735
00:31:00,870 --> 00:30:59,519
abilities only by taking drugs or

736
00:31:02,389 --> 00:31:00,880
by

737
00:31:05,190 --> 00:31:02,399
doing meditation

738
00:31:08,149 --> 00:31:05,200

well this could help us to confirm it

739

00:31:09,669 --> 00:31:08,159

that specific structure is somehow

740

00:31:10,630 --> 00:31:09,679

related

741

00:31:13,509 --> 00:31:10,640

to

742

00:31:16,389 --> 00:31:13,519

the development of visibility and it is

743

00:31:20,549 --> 00:31:16,399

if it is common in

744

00:31:26,070 --> 00:31:23,029

and finally what can we conclude well

745

00:31:28,630 --> 00:31:26,080

the first thing is that it is unlikely

746

00:31:31,750 --> 00:31:28,640

that a single gene or several

747

00:31:35,990 --> 00:31:31,760

polymorphisms or gene variants are the

748

00:31:39,590 --> 00:31:38,870

perhaps this has a lot more to do with

749

00:31:42,470 --> 00:31:39,600

the

750

00:31:47,590 --> 00:31:42,480

regulation of gene expression than with

751
00:31:50,950 --> 00:31:47,600
the having or not their variety genes

752
00:31:53,590 --> 00:31:50,960
changes in neuronal connectivity

753
00:31:56,230 --> 00:31:53,600
used by a wide range of different

754
00:31:58,950 --> 00:31:56,240
observations

755
00:32:02,149 --> 00:31:58,960
could lead to site development as the

756
00:32:05,669 --> 00:32:03,830
extra fibers

757
00:32:08,310 --> 00:32:05,679
between the cabinet and the future

758
00:32:14,230 --> 00:32:12,149
and this could be due to

759
00:32:17,029 --> 00:32:14,240
genetic robustness or genetic

760
00:32:19,269 --> 00:32:17,039
compensation or perhaps something else

761
00:32:21,430 --> 00:32:19,279
for example

762
00:32:24,470 --> 00:32:21,440
something that has to do with the

763
00:32:27,029 --> 00:32:24,480

genetic revelation

764

00:32:28,789 --> 00:32:27,039

and we can make use of

765

00:32:32,149 --> 00:32:28,799

state-of-the-art methodologies in

766

00:32:33,350 --> 00:32:32,159

genetics in our imaging and

767

00:32:36,389 --> 00:32:33,360

in the

768

00:32:37,110 --> 00:32:36,399

omics technologies like transcriptomics

769

00:32:38,549 --> 00:32:37,120

or

770

00:32:40,630 --> 00:32:38,559

proteomics

771

00:32:42,470 --> 00:32:40,640

and this could help us to expand our

772

00:32:43,590 --> 00:32:42,480

knowledge on the biology of psychic

773

00:32:44,549 --> 00:32:43,600

abilities

774

00:32:46,950 --> 00:32:44,559

and

775

00:32:47,750 --> 00:32:46,960

by doing so i think that

776

00:32:50,149 --> 00:32:47,760

we

777

00:32:52,389 --> 00:32:50,159

could finally be able to

778

00:32:54,310 --> 00:32:52,399

answer a question that the custodial are

779

00:32:55,430 --> 00:32:54,320

a psychologist

780

00:32:58,950 --> 00:32:55,440

during

781

00:32:59,990 --> 00:32:58,960

many decades which is why psy is so

782

00:33:04,470 --> 00:33:00,000

abusive

783

00:33:09,350 --> 00:33:07,269

excellent alex so there's uh some

784

00:33:12,070 --> 00:33:09,360

interesting questions in the in the chat

785

00:33:16,389 --> 00:33:12,080

um in super norm our super normal

786

00:33:20,230 --> 00:33:17,990

transfer

787

00:33:24,149 --> 00:33:20,240

do you mean

788

00:33:25,830 --> 00:33:24,159

inheritance that they could be inherited

789

00:33:28,230 --> 00:33:25,840

the question is very short but maybe you

790

00:33:29,990 --> 00:33:28,240

can elaborate on the possibilities uh

791

00:33:32,070 --> 00:33:30,000

transferable

792

00:33:35,029 --> 00:33:32,080

i think it refers to they can be

793

00:33:41,110 --> 00:33:37,269

i think they can

794

00:33:45,269 --> 00:33:43,509

we have to avoid supernormal abilities

795

00:33:48,230 --> 00:33:45,279

from all of the paranormal and

796

00:33:50,950 --> 00:33:48,240

supernatural elements and

797

00:33:53,990 --> 00:33:50,960

if we do that we

798

00:33:56,789 --> 00:33:54,000

remain with a series of abilities that

799

00:33:59,269 --> 00:33:56,799

like any other

800

00:34:00,950 --> 00:33:59,279

human abilities have a molecular and

801
00:34:02,549 --> 00:34:00,960

genetic basis

802
00:34:04,870 --> 00:34:02,559

so in this case

803
00:34:10,629 --> 00:34:07,669

like happens with other abilities there

804
00:34:13,669 --> 00:34:10,639

also not everything relies on the right

805
00:34:18,310 --> 00:34:15,829

there are there could be some genes

806
00:34:22,470 --> 00:34:18,320

involved with this process so

807
00:34:28,149 --> 00:34:24,389

psychic abilities

808
00:34:28,159 --> 00:34:32,950

and if it is a genetic component

809
00:34:37,990 --> 00:34:35,510

it would be inherited like any other

810
00:34:39,349 --> 00:34:38,000

trade force there is evidence for this

811
00:34:41,909 --> 00:34:39,359

uh

812
00:34:44,470 --> 00:34:41,919

there's a pedigree analysis

813
00:34:45,349 --> 00:34:44,480

which is a family history analysis that

814

00:34:46,829 --> 00:34:45,359

was

815

00:34:50,230 --> 00:34:46,839

done by

816

00:34:53,270 --> 00:34:50,240

uh sharikhan a

817

00:34:54,149 --> 00:34:53,280

scottish researcher in the late 90s

818

00:34:57,349 --> 00:34:54,159

he

819

00:35:00,069 --> 00:34:57,359

interviewed around 130 different people

820

00:35:02,230 --> 00:35:00,079

and found that

821

00:35:04,630 --> 00:35:02,240

they all have

822

00:35:05,510 --> 00:35:04,640

ancestors their father their parents or

823

00:35:08,230 --> 00:35:05,520

their

824

00:35:12,150 --> 00:35:08,240

grandparents

825

00:35:16,150 --> 00:35:13,349

specific

826

00:35:19,589 --> 00:35:16,160

ability known as second site which is a

827

00:35:22,390 --> 00:35:19,599

very widespread ability in scotland

828

00:35:24,310 --> 00:35:22,400

and mainly in the highlands

829

00:35:27,670 --> 00:35:24,320

and

830

00:35:30,710 --> 00:35:27,680

she found a consistent pattern

831

00:35:33,430 --> 00:35:30,720

of inheritance which

832

00:35:35,829 --> 00:35:33,440

was an autosomal dominant model of

833

00:35:39,270 --> 00:35:35,839

inheritance this means that

834

00:35:42,790 --> 00:35:39,280

this straight is not

835

00:35:45,670 --> 00:35:42,800

related to the sexual chromosomes

836

00:35:46,390 --> 00:35:45,680

it's not involved sexual chromosomes

837

00:35:49,750 --> 00:35:46,400

so

838

00:35:52,470 --> 00:35:51,349

if you remember the study that i

839

00:35:55,990 --> 00:35:52,480
mentioned

840

00:35:59,589 --> 00:35:56,000
from the theme of hellani guava

841

00:36:01,190 --> 00:35:59,599
they proposed as the cpg

842

00:36:02,630 --> 00:36:01,200
and

843

00:36:04,550 --> 00:36:02,640
additional

844

00:36:06,310 --> 00:36:04,560
work

845

00:36:11,990 --> 00:36:06,320
could involve

846

00:36:16,870 --> 00:36:14,470
parents or grandparents or other family

847

00:36:19,589 --> 00:36:16,880
members of the people all that have this

848

00:36:21,829 --> 00:36:19,599
gene and also

849

00:36:24,550 --> 00:36:21,839
report that they have some sort some

850

00:36:26,470 --> 00:36:24,560
level of psychic abilities

851

00:36:28,710 --> 00:36:26,480

okay so there's a following question

852

00:36:30,710 --> 00:36:28,720

that may be actually related that maybe

853

00:36:32,390 --> 00:36:30,720

you probably have just answered uh

854

00:36:34,310 --> 00:36:32,400

relating to

855

00:36:36,310 --> 00:36:34,320

the possibility of studies regarding the

856

00:36:38,150 --> 00:36:36,320

offspring of individuals who have

857

00:36:41,190 --> 00:36:38,160

trained in psychic abilities or had

858

00:36:44,150 --> 00:36:41,200

stressful induced psychic experiences

859

00:36:45,990 --> 00:36:44,160

looking for any epigenetic effects do

860

00:36:49,270 --> 00:36:46,000

you have any comments on this well this

861

00:36:51,109 --> 00:36:49,280

is a very interesting question indeed

862

00:36:54,230 --> 00:36:51,119

because

863

00:36:57,109 --> 00:36:56,069

it is uh

864

00:36:58,710 --> 00:36:57,119

their

865

00:37:00,870 --> 00:36:58,720

current uh

866

00:37:02,310 --> 00:37:00,880

knowledge in the field of genetics

867

00:37:04,470 --> 00:37:02,320

specifically

868

00:37:06,390 --> 00:37:04,480

tell us that uh

869

00:37:09,109 --> 00:37:06,400

the situations that

870

00:37:12,870 --> 00:37:09,119

you live throughout your life are

871

00:37:15,750 --> 00:37:12,880

these uh results in the modification of

872

00:37:16,630 --> 00:37:15,760

your genome or

873

00:37:17,589 --> 00:37:16,640

any

874

00:37:19,750 --> 00:37:17,599

trait

875

00:37:21,450 --> 00:37:19,760

that you have this would not be

876
00:37:22,870 --> 00:37:21,460
inherited but

877
00:37:25,430 --> 00:37:22,880
[Music]

878
00:37:26,870 --> 00:37:25,440
recent advances in the

879
00:37:28,710 --> 00:37:26,880
genetics field

880
00:37:31,750 --> 00:37:28,720
have shown that yes if

881
00:37:37,750 --> 00:37:33,270
has uh

882
00:37:40,150 --> 00:37:37,760
or goes to a situation that modifies

883
00:37:46,790 --> 00:37:40,160
their epigenetic markers

884
00:37:53,510 --> 00:37:49,030
the next generations

885
00:37:56,330 --> 00:37:55,030
putting an example

886
00:37:59,750 --> 00:37:56,340
if

887
00:38:02,950 --> 00:37:59,760
[Music]

888
00:38:05,510 --> 00:38:02,960

if a lightning strikes a person

889

00:38:08,150 --> 00:38:05,520

and this results in a

890

00:38:11,030 --> 00:38:08,160

change of epigenetic patterns and

891

00:38:12,470 --> 00:38:11,040

ultimately in the development of psychic

892

00:38:14,250 --> 00:38:12,480

abilities

893

00:38:15,910 --> 00:38:14,260

it could also be

894

00:38:20,470 --> 00:38:15,920

[Music]

895

00:38:27,109 --> 00:38:20,480

passed to the next generation and also

896

00:38:31,190 --> 00:38:29,829

i have not considered this but it is a

897

00:38:32,790 --> 00:38:31,200

very

898

00:38:35,430 --> 00:38:32,800

important point that

899

00:38:38,550 --> 00:38:35,440

could also account for

900

00:38:40,470 --> 00:38:38,560

the presence of supernormal abilities

901

00:38:42,390 --> 00:38:40,480

well it will be definitely a an

902

00:38:43,990 --> 00:38:42,400

interesting point to research on

903

00:38:45,430 --> 00:38:44,000

so

904

00:38:48,630 --> 00:38:45,440

do you have any more information

905

00:38:50,150 --> 00:38:48,640

regarding if the cow that uh

906

00:38:52,069 --> 00:38:50,160

if they call that nucleus on the cotton

907

00:38:55,670 --> 00:38:52,079

putamen um

908

00:38:57,510 --> 00:38:55,680

if it has been studied in other species

909

00:38:59,349 --> 00:38:57,520

i don't think if in psychic abilities

910

00:39:00,470 --> 00:38:59,359

but if you can comment anything further

911

00:39:01,829 --> 00:39:00,480

relating to that

912

00:39:03,270 --> 00:39:01,839

yeah

913

00:39:05,190 --> 00:39:03,280

it is

914

00:39:09,829 --> 00:39:05,200

interesting because

915

00:39:11,990 --> 00:39:09,839

it is a very ancient brain region

916

00:39:14,490 --> 00:39:12,000

it is like set at the center of the

917

00:39:16,710 --> 00:39:14,500

brain and it is present in

918

00:39:18,790 --> 00:39:16,720

[Music]

919

00:39:22,550 --> 00:39:18,800

at least in all vertebrates in

920

00:39:23,829 --> 00:39:22,560

fish in reptiles spirits amphibians it

921

00:39:25,589 --> 00:39:23,839

is a

922

00:39:27,109 --> 00:39:25,599

conserved structure

923

00:39:31,430 --> 00:39:27,119

and also

924

00:39:33,270 --> 00:39:31,440

i think some art robots some insects

925

00:39:35,750 --> 00:39:33,280

have a

926
00:39:38,630 --> 00:39:35,760
a primitive version of this structure

927
00:39:40,870 --> 00:39:38,640
because the genes that are

928
00:39:43,190 --> 00:39:40,880
involved in the

929
00:39:45,990 --> 00:39:43,200
related to this structure are also

930
00:39:47,430 --> 00:39:46,000
present in natural books

931
00:39:50,550 --> 00:39:47,440
and

932
00:39:50,560 --> 00:39:55,190
i think that

933
00:40:01,109 --> 00:39:58,550
if we look at uh other species well

934
00:40:02,310 --> 00:40:01,119
perhaps this has been done but i

935
00:40:04,710 --> 00:40:02,320
do not have

936
00:40:07,510 --> 00:40:04,720
that information right now

937
00:40:08,710 --> 00:40:07,520
but i think it is the one of the most

938
00:40:14,790 --> 00:40:08,720

conserved

939

00:40:20,150 --> 00:40:18,150

okay so there's a very punctual question

940

00:40:21,990 --> 00:40:20,160

regarding your presentation of yesterday

941

00:40:24,230 --> 00:40:22,000

and today so

942

00:40:27,030 --> 00:40:24,240

it states that yesterday talk focus

943

00:40:29,829 --> 00:40:27,040

specifically on the gnt and earth

944

00:40:30,790 --> 00:40:29,839

tn rc18 the one that you exposed

945

00:40:31,910 --> 00:40:30,800

yesterday

946

00:40:34,150 --> 00:40:31,920

um

947

00:40:36,390 --> 00:40:34,160

has been correlated with psi abilities

948

00:40:37,670 --> 00:40:36,400

how does this relate to the first bullet

949

00:40:39,510 --> 00:40:37,680

under

950

00:40:41,270 --> 00:40:39,520

these presentation conclusions which

951
00:40:43,309 --> 00:40:41,280
states that it isn't likely that a

952
00:40:45,670 --> 00:40:43,319
single gene or several several

953
00:40:46,630 --> 00:40:45,680
polymorphisms are the explanation for

954
00:40:50,710 --> 00:40:46,640
psy

955
00:40:55,030 --> 00:40:53,430
as i said this could be the explanation

956
00:40:56,470 --> 00:40:55,040
in

957
00:41:00,630 --> 00:40:56,480
people that

958
00:41:03,589 --> 00:41:00,640
have this specific gene variant

959
00:41:08,950 --> 00:41:06,630
additional analysis are needed but

960
00:41:12,630 --> 00:41:08,960
this could account for site development

961
00:41:16,950 --> 00:41:15,109
there are other people that do not have

962
00:41:19,030 --> 00:41:16,960
this

963
00:41:20,630 --> 00:41:19,040

polymorphism

964

00:41:22,630 --> 00:41:20,640

like

965

00:41:25,109 --> 00:41:22,640

has revealed the study of

966

00:41:26,230 --> 00:41:25,119

land water

967

00:41:27,829 --> 00:41:26,240

so

968

00:41:29,510 --> 00:41:27,839

the question is

969

00:41:32,710 --> 00:41:29,520

why people that

970

00:41:36,069 --> 00:41:34,870

specific genetic component

971

00:41:38,069 --> 00:41:36,079

can also

972

00:41:42,309 --> 00:41:38,079

develop psychically

973

00:41:47,829 --> 00:41:46,829

if it all rely on the same

974

00:41:49,990 --> 00:41:47,839

explanation with

975

00:41:52,309 --> 00:41:50,000

a specific gene variant

976
00:41:53,940 --> 00:41:52,319
this would mean that

977
00:41:55,190 --> 00:41:53,950
every people in the world

978
00:41:57,670 --> 00:41:55,200
[Music]

979
00:41:58,950 --> 00:41:57,680
that lives today or that has

980
00:42:00,390 --> 00:41:58,960
lived in

981
00:42:03,589 --> 00:42:00,400
the past

982
00:42:06,150 --> 00:42:03,599
had this gene variant

983
00:42:07,349 --> 00:42:06,160
if that was the only explanation but it

984
00:42:13,589 --> 00:42:07,359
is

985
00:42:15,829 --> 00:42:13,599
right i just stated yesterday probably

986
00:42:17,349 --> 00:42:15,839
it's more like a network

987
00:42:19,910 --> 00:42:17,359
based

988
00:42:23,670 --> 00:42:19,920

genetic phenomena right

989

00:42:28,309 --> 00:42:26,390

do i expand more on this or

990

00:42:30,230 --> 00:42:28,319

probably we can go to the next question

991

00:42:31,750 --> 00:42:30,240

if anyone have any additional doubts

992

00:42:34,470 --> 00:42:31,760

regarding that topic you can put it in

993

00:42:36,470 --> 00:42:34,480

the chat so another question is if there

994

00:42:38,470 --> 00:42:36,480

is any evidence to suggest that

995

00:42:39,829 --> 00:42:38,480

supernormal capabilities are increasing

996

00:42:42,230 --> 00:42:39,839

or decreasing within the human

997

00:42:43,109 --> 00:42:42,240

population over time short term or long

998

00:42:44,790 --> 00:42:43,119

term

999

00:42:45,829 --> 00:42:44,800

i've heard debates about this in both

1000

00:42:47,589 --> 00:42:45,839

directions both increasing and

1001
00:42:50,150 --> 00:42:47,599
decreasing in expression over long-term

1002
00:42:54,470 --> 00:42:50,160
human evolution so what's your thoughts

1003
00:42:54,480 --> 00:42:57,190
i'm

1004
00:43:01,430 --> 00:43:00,040
i have seen all these debates one

1005
00:43:03,430 --> 00:43:01,440
[Music]

1006
00:43:06,870 --> 00:43:03,440
and it is hard to

1007
00:43:08,470 --> 00:43:06,880
reach any conclusions yet uh that some

1008
00:43:11,109 --> 00:43:08,480
of them argue that

1009
00:43:13,990 --> 00:43:11,119
there have been a degree for example

1010
00:43:19,829 --> 00:43:16,390
the extermination of

1011
00:43:24,470 --> 00:43:22,069
gifted people for example in the

1012
00:43:27,030 --> 00:43:24,480
during the witch hunting period

1013
00:43:31,109 --> 00:43:27,040

it is believed that

1014

00:43:35,510 --> 00:43:33,670

born alive

1015

00:43:37,910 --> 00:43:35,520

did have uh

1016

00:43:38,710 --> 00:43:37,920

but were gifted women

1017

00:43:41,109 --> 00:43:38,720

so

1018

00:43:43,829 --> 00:43:41,119

by killing them

1019

00:43:46,390 --> 00:43:43,839

many of them could not leave

1020

00:44:06,710 --> 00:43:46,400

descendants and

1021

00:44:10,550 --> 00:44:08,390

the other way around

1022

00:44:14,150 --> 00:44:10,560

and

1023

00:44:16,309 --> 00:44:14,160

today there is uh there's more openness

1024

00:44:20,150 --> 00:44:16,319

for these things

1025

00:44:26,309 --> 00:44:22,790

outside of mainstream sciences

1026
00:44:30,390 --> 00:44:28,230
there is i think

1027
00:44:32,710 --> 00:44:30,400
in the general population there is more

1028
00:44:34,069 --> 00:44:32,720
acceptance of this

1029
00:44:35,109 --> 00:44:34,079
there are

1030
00:44:36,870 --> 00:44:35,119
many

1031
00:44:39,829 --> 00:44:36,880
schools that

1032
00:44:41,670 --> 00:44:39,839
teach people how to develop for example

1033
00:44:46,069 --> 00:44:41,680
remote viewing or

1034
00:44:48,550 --> 00:44:46,079
to move a side wheel to decay or

1035
00:44:50,470 --> 00:44:48,560
any other kind of psycability so there

1036
00:44:53,910 --> 00:44:50,480
would be

1037
00:44:58,309 --> 00:44:56,550
learning to develop this

1038
00:45:00,630 --> 00:44:58,319

if

1039

00:45:02,710 --> 00:45:00,640

what i'm proposing here is

1040

00:45:04,870 --> 00:45:02,720

somehow correct

1041

00:45:06,470 --> 00:45:04,880

perhaps the

1042

00:45:09,829 --> 00:45:06,480

people with their

1043

00:45:12,550 --> 00:45:09,839

there are less people today with the

1044

00:45:15,430 --> 00:45:12,560

the genetic component for

1045

00:45:16,320 --> 00:45:15,440

psyche development

1046

00:45:17,589 --> 00:45:16,330

but

1047

00:45:20,150 --> 00:45:17,599

[Music]

1048

00:45:23,270 --> 00:45:20,160

it could be that there are more people

1049

00:45:24,870 --> 00:45:23,280

that develop psychic abilities through

1050

00:45:26,950 --> 00:45:24,880

the others

1051

00:45:28,630 --> 00:45:26,960

the one that involves a

1052

00:45:31,750 --> 00:45:28,640

genetic or

1053

00:45:33,990 --> 00:45:31,760

genetic regulation network

1054

00:45:35,030 --> 00:45:34,000

true that's what you propose these eight

1055

00:45:37,829 --> 00:45:35,040

rows to

1056

00:45:40,069 --> 00:45:37,839

super normality so here's an interesting

1057

00:45:42,230 --> 00:45:40,079

question many genetic traits remain

1058

00:45:44,069 --> 00:45:42,240

hidden until they are activated what

1059

00:45:46,710 --> 00:45:44,079

type of activities or situations might

1060

00:45:48,550 --> 00:45:46,720

activate a hidden site rate if it is

1061

00:45:52,309 --> 00:45:48,560

genetically based

1062

00:45:56,390 --> 00:45:53,910

yeah

1063

00:45:59,349 --> 00:45:57,589

this

1064

00:46:01,349 --> 00:45:59,359

has a lot to do with the other

1065

00:46:06,230 --> 00:46:01,359

categories that i am

1066

00:46:06,240 --> 00:46:11,109

this for example

1067

00:46:23,670 --> 00:46:13,109

i

1068

00:46:28,230 --> 00:46:23,680

there have been observed many

1069

00:46:31,750 --> 00:46:28,240

the medical physiological changes

1070

00:46:35,510 --> 00:46:31,760

it is not a direct process it does not

1071

00:46:39,670 --> 00:46:35,520

control which genes are going to be over

1072

00:46:43,510 --> 00:46:41,430

we still

1073

00:46:45,589 --> 00:46:43,520

do not know

1074

00:46:48,870 --> 00:46:45,599

everything we need to know about the

1075

00:46:52,309 --> 00:46:48,880

physiological basis or meditation

1076

00:46:56,150 --> 00:46:54,550

it has very difficult effects

1077

00:46:59,030 --> 00:46:56,160

and

1078

00:47:04,630 --> 00:46:59,990

different

1079

00:47:10,860 --> 00:47:07,990

change their expression patterns after

1080

00:47:11,910 --> 00:47:10,870

a few meditation

1081

00:47:14,470 --> 00:47:11,920

[Music]

1082

00:47:20,630 --> 00:47:17,190

so uh

1083

00:47:22,230 --> 00:47:20,640

well this is one type of activity that

1084

00:47:24,790 --> 00:47:22,240

it could impact

1085

00:47:27,750 --> 00:47:24,800

directly in the

1086

00:47:29,750 --> 00:47:27,760

epigenetic component and

1087

00:47:30,710 --> 00:47:29,760

by doing so

1088

00:47:31,670 --> 00:47:30,720

made

1089

00:47:34,150 --> 00:47:31,680

this

1090

00:47:36,549 --> 00:47:34,160

region of the genome accessible

1091

00:47:40,150 --> 00:47:38,790

well to be transcribed and then

1092

00:47:43,109 --> 00:47:40,160

translated into

1093

00:47:44,870 --> 00:47:43,119

specific proteins

1094

00:47:46,630 --> 00:47:44,880

and also

1095

00:47:48,950 --> 00:47:46,640

also if we take

1096

00:47:50,630 --> 00:47:48,960

stressful situations

1097

00:47:53,270 --> 00:47:50,640

it is known that

1098

00:47:56,230 --> 00:47:53,280

this can also result in

1099

00:47:59,430 --> 00:47:56,240

the inactivation or modification of

1100

00:48:01,670 --> 00:47:59,440

several pathways

1101

00:48:03,430 --> 00:48:01,680

for example uh uh

1102

00:48:05,510 --> 00:48:03,440

separation of

1103

00:48:08,309 --> 00:48:05,520

stress related molecules

1104

00:48:12,549 --> 00:48:09,910

in the case of

1105

00:48:14,790 --> 00:48:12,559

people that are psychic born

1106

00:48:16,790 --> 00:48:14,800

it could also be

1107

00:48:18,630 --> 00:48:16,800

something like this

1108

00:48:20,630 --> 00:48:18,640

perhaps some of them

1109

00:48:24,710 --> 00:48:20,640

also they have the genetic component

1110

00:48:28,710 --> 00:48:26,069

but if

1111

00:48:30,790 --> 00:48:28,720

whether a

1112

00:48:32,150 --> 00:48:30,800

specific event is needed to

1113

00:48:34,230 --> 00:48:32,160

make this

1114

00:48:35,910 --> 00:48:34,240

trade express

1115

00:48:37,829 --> 00:48:35,920

or if

1116

00:48:40,870 --> 00:48:37,839

it expresses normally

1117

00:48:45,990 --> 00:48:43,589

excellent so um congratulations on the

1118

00:48:48,230 --> 00:48:46,000

excellent presentation alex i think uh

1119

00:48:50,630 --> 00:48:48,240

our program chair jungkook may have some

1120

00:48:52,950 --> 00:48:50,640

additional comments remarks or maybe

1121

00:48:55,030 --> 00:48:52,960

announcements

1122

00:48:57,030 --> 00:48:55,040

thank you ramses alex it was wonderful

1123

00:48:58,790 --> 00:48:57,040

to hear your um here talking that last

1124

00:49:00,870 --> 00:48:58,800

question was mine you know i'm very

1125

00:49:01,589 --> 00:49:00,880

interested that there are some people

1126

00:49:04,470 --> 00:49:01,599

who

1127

00:49:05,990 --> 00:49:04,480

may not have these uh at birth they may

1128

00:49:07,910 --> 00:49:06,000

not notice these things but there might

1129

00:49:09,109 --> 00:49:07,920

be certain situations that just turn

1130

00:49:10,390 --> 00:49:09,119

them on

1131

00:49:12,710 --> 00:49:10,400

um for example

1132

00:49:14,309 --> 00:49:12,720

near-death experiences for example

1133

00:49:15,990 --> 00:49:14,319

are one of the things that i often think

1134

00:49:17,349 --> 00:49:16,000

of that people have after effects from

1135

00:49:20,390 --> 00:49:17,359

these and have

1136

00:49:23,829 --> 00:49:20,400

um and these people start expressing

1137

00:49:25,829 --> 00:49:23,839

pk in different times uh an unusual

1138

00:49:27,750 --> 00:49:25,839

thing so i think your presentation was

1139

00:49:29,990 --> 00:49:27,760

very interesting thank you so much for

1140

00:49:31,829 --> 00:49:30,000

for spending time with us today oh thank

1141

00:49:34,549 --> 00:49:31,839

you again very much

1142

00:49:36,309 --> 00:49:34,559

it's an honor to be here presenting this

1143

00:49:38,470 --> 00:49:36,319

wow it was great to have you it's you

1144

00:49:40,150 --> 00:49:38,480

know it's it's all the talks that we've